

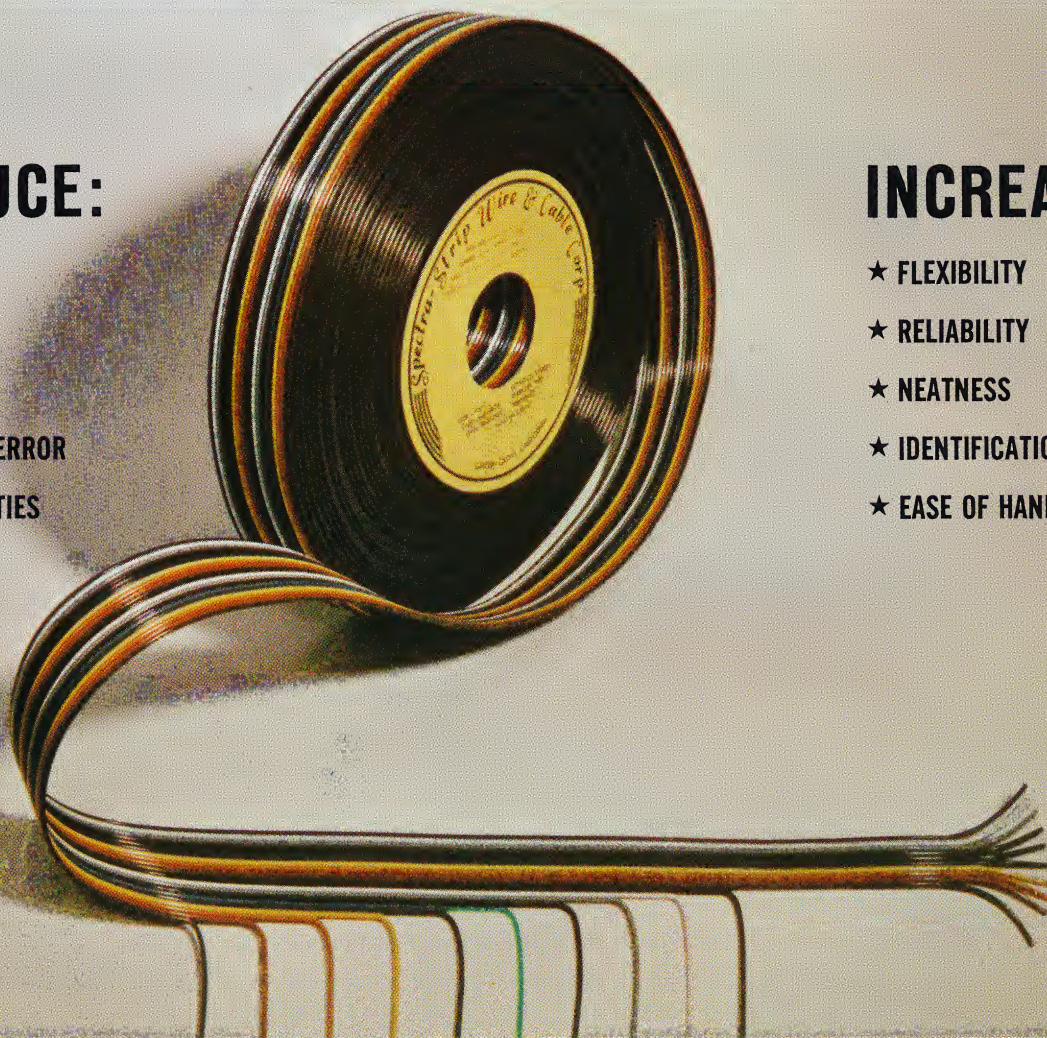


excellence in engineered wiring

SPECTRA-STRIP® **FLAT BONDED RIBBON CABLE**

REDUCE:

- ★ WEIGHT
- ★ SPACE
- ★ LABOR
- ★ WIRING ERROR
- ★ STRING TIES



INCREASE:

- ★ FLEXIBILITY
- ★ RELIABILITY
- ★ NEATNESS
- ★ IDENTIFICATION
- ★ EASE OF HANDLING

SPACE-AGE CABLE • WITH DOWN TO EARTH DESIGN

MEETS MIL-W-16878D Type "B" "C" "D"

SPECTRA-STRIP is a flat-bonded ribbon cable manufactured exclusively by Spectra-Strip Wire and Cable Corporation. We hold patents on this flat cable process and equipment. This cable has brought about a whole new design concept in the Electronic Industry.

This is no limit to the number or size of conductors or to the lengths of cables. A large variety of cables are on the shelf for immediate delivery. Our Standard Color Code has become the standard in the Industry but we can make ribbon cables to any color code you desire using any combination of the 10 basic colors plus a variety of special extruded stripes. We use our own special Spectra-Ink for the coloring of Jackets or insulation of wire where volume does not permit manufacture in all colors. It is desirable to have all wires of a cable of the same AWG but not necessary.

A large portion of our Production is making Custom Harnesses from Ribbon Cable. This includes cutting, separating, stripping, tinning and terminating. We have equipment for installation of most types of connectors and terminals.

Let us work together for: EXCELLENCE IN ENGINEERED WIRING

SAMPLE: Part #SS-1524-19B 15 Condr., 24 AWG, 19 Strand • 600 Volt MIL-W-16878D Type "B"

RIBBON CABLE STOCK ITEMS ARE AVAILABLE IN 100 FOOT ROLLS

The number of conductors, wire sizes available and strandings as well as the TYPE insulation and color code is shown in the table below. Bear in mind that this is only our minimum stock list and possible cable types is actually infinite.

STOCK CABLES MEET MIL-W-16878D Type "B," 600 volt .010" or "C" 1000 volt .015"PVC.

NUMBER OF CONDUCTORS	WIRE SIZES AVAILABLE	STRANDING	TYPE	COLOR CODE
10 – – 20 – 30 –	30 – 28 – 26 – 24 – 22	7	B	10 colors repeated
10 – 15 – 20 – 30 – 40	– 24 – 22	19	B	10 colors repeated
10 – – 20 –	– 24 – 22	105	B	white only
10 – – 20 –	– 26 –	64	C	10 colors repeated
10 – – 20 –	30 –	26	B	white only
10 – 15 –	22 – 20 – 18 – 16 – 14	19	C	10 colors repeated
10 – – 20 –	– 20 – 18 –	105	C	white only

PART NUMBERS:

Use prefix symbol SS- for Spectra-Strip and then add applicable number of letter from each column. Example: SS-1022-105B means Spectra-Strip-10 Condr., 22 AWG, 105 Strand Type B White.

NON-STOCK ITEMS:

Available with any number of conductors in any size wire. The same low prices and quick delivery.

NON-STANDARD RIBBON CABLE:

Any of the following types may be put into Ribbon Cable.
Coax of any types or size with PVC Jacket (RG-174/U is in stock).

SHIELDED AND JACKETED: Many types in stock:

TWISTED PAIR: Several types available.

U.L. & C.S.A. APPROVED WIRE: We can use this where volume permits.

TUBING: This is used to make spaced cable or Low Capacitance cable. Wires are spaced to match printed circuit connectors.

TEFLON: This has a fiber glass/silicone jacket meeting MIL-I-19166.

STRIPES: We use only extruded stripes for non-smearing color codes.

NUMBERING: We have a Kingsley Hot Stamp for pre-numbering of wire.

MINIMUM ORDER:

100 ft. flat roll.

COLOR CODE:

BRN RED ORG YEL GRN BLU VIO GRY WHT BLK is standard. This is repeated for over 10 conductors. We also have special striped wires available. Please ask for these before placing an order.

PACKAGING:

Standard put-up is 100 and 250 ft. flat rolls. Narrow cables may be level wound on spools in long lengths.



P.O. Box 415
Garden Grove, California 92642
Tel: (714) 537-4530 • TWX: (714) 530-0313



excellence in engineered wiring

SPECTRA-TEMP® TEFLON* RIBBON CABLE



PAT. PEND.

New Hi-Low temperature ribbon cables ribbonized with fiber glass tape and silicone adhesive that meets MIL-I-19166 CLASS 'H' insulation -110°F TO +550°F

REDUCE:

- WEIGHT • SPACE • LABOR • WIRING • STRING TIES

INCREASE:

- FLEXIBILITY • RELIABILITY • NEATNESS
- IDENTIFICATION • EASE OF HANDLING

TEFLON RIBBON CABLE AND HARNESSES MEET MIL-W-16878 TYPE E-EE, 600-1000 VOLTS, 200°C

SPECTRA-TEMP® is the NEW Low Cost TEFLON Ribbon Cable. No Special Tooling is required to separate the conductors from each other. There is **no unraveling** of a woven braid to contend with. Individual wires can be separated from the cable without the rest of the cable coming loose. Every wire is smooth and clean for easy stripping. Every wire is treated for bonding or potting. The Silicone Adhesive remains pressure sensitive throughout the temperature range and for years.

We stand ready to help you design SPECTRA-TEMP into your equipment. We make complete harness assemblies as well as supply continuous cable. A large portion of our production is the making of custom harnesses from ribbon cable. This includes cutting, separating, stripping, tinning and terminating. We have equipment for the installation of most types of connectors and terminals. We also do potting of the connectors with many types of potting materials.

Let us work together for: EXCELLENCE IN ENGINEERED WIRING

TEFLON* RIBBON CABLES AND HARNESSES

SIMPLE TO PREPARE HARNESSES

- SEPARATING CONDUCTORS:** Just a simple snip with a scissors next to the 2 outer conductors, peel back and trim. No chance to damage the wire. There is no braid to unravel and the conductors are left completely clean and round for easy stripping.
- SIDE BREAKOUTS:** Snip down one side, next to the outer wire, and then pull down as many wires as required to match your specifications. The extra tape can be pressed together to hold wires firmly in position or be trimmed as desired.
- CABLE BRANCH-OUTS:** Snip lengthwise down the cable to branch out the required number of conductors. The jacketing tape will adhere tightly even though it does not have a complete wrap-around. Even at high temperatures the jacket does not release.

MANY ADVANTAGES OF SPECTRA-TEMP® TEFLON* RIBBON CABLES PAT. PEND.

- LESS SPACE:** All wires touch each other, with no film or fin in between to spread out the conductors and waste space. The outer Jacket is just .011" thick and adds another 4000 volt dielectric strength.
- MORE FLEXIBILITY:** Because all wires are on the same plane, they bend easier and have a greater flex life since there is no kinking or binding of conductors.
- GREATER STRENGTH:** With every wire free to do its share, far greater tensile loads can be applied to cables.
- CONTROLLED CAPACITANCE:** With every wire always located in the same relation to the other wires, you get exactly the same capacitance time after time. Every Electronic Engineer knows the value of this in today's complex equipment.
- LESS COLD-FLOW:** Compressive and abrasive resistance is greatly increased with every wire sharing the load. No braid to cut into the insulation.
- HEAT DISSIPATION:** Spectra-Temp Ribbon Cables dissipate heat far better than round cables, often allowing a size smaller wire to be used.
- BONDABILITY AND POTTING:** With a special bondability treatment given to the insulation you will find you no longer need to treat or etch the wires for potting connectors. This bondability treatment does not change the original color of the insulation nor in any way detract from the excellent properties of the Polytetrafluoroethylene insulation, more commonly known as TFE or PTFE, or the Du Pont trademark of TEFLON.
- COLORS:** The fiber glass jacket is white. It can be marked or stamped. The wire insulation comes in 10 standard colors. We stock the colors in most of the common sizes and white in less common sizes. Hot stamping and stripes are possible at additional cost and delivery time as is shielded wire with various types of jackets. Various sizes can be combined in the same cable. RECOMMENDED COLOR SEQUENCE is BRN RED ORG YEL GRN BLU VIO GRY WHT BLK and repeated.

MINIMUM ORDER: 1000 conductor feet except stock items of 500 conductor feet.

QUANTITY TOLERANCE: $\pm 10\%$ of ordered quantity must be allowed on all orders.

MINIMUM LENGTH: 20 ft. unless requested otherwise on the order.

*TEFLON is a Registered Du Pont Trademark



P.O. BOX 415
GARDEN GROVE, CALIFORNIA 92642
TEL: (714) 537-4530 • TWX: (714) 530-0313

REPRESENTED BY:



excellence in engineered wiring

SPECTRA-FLEX®

FLAT BONDED RIBBON CABLE

26-64-105 STRANDS PER CONDUCTOR

INCREASE:

- FLEXIBILITY
- RELIABILITY
- NEATNESS
- IDENTIFICATION
- EASE OF HANDLING



REDUCE:

- WEIGHT
- SPACE
- LABOR
- WIRING ERROR
- STRING TIES

Ultra-flexible ribbon cable with

FLEX-LIFE IN THE MILLIONS

Any number of conductors in 18-20-22-24-26-30-AWG. Stranding of 26-64-105. NO TOOLING...STANDARD STRIPPING METHODS.

SPECTRA-FLEX® is a flat-bonded ribbon cable manufactured exclusively by Spectra-Strip Wire and Cable Corp. This method of ribbonizing standard round PVC insulated wires has been proven by the usage of many millions of feet by over 1000 customers. We hold patents on this flat cable process and equipment. The Spectra-Flex® flat bonded ribbon cable has brought about a whole new design concept in the Electronic Industry and is of particular interest to manufacturers of electronic equipment having doors and drawers that bend, hinge, fold or slide.

A large portion of our production is making custom harnesses from Spectra-Flex®, Spectra-Temp®, Magna-Strip and Standard Spectra-Strip ribbon cable. This includes cutting, separating, stripping, tinning and terminating. We install connectors and do potting.

Let us work together for: EXCELLENCE IN ENGINEERED WIRING

SPECTRA-FLEX® *Life in the millions*

ELECTRONIC CABLES WITH UP TO 105 STRANDS PER CONDUCTOR 105°C INSULATION THAT MEETS MIL-W-16878D TYPE B OR C

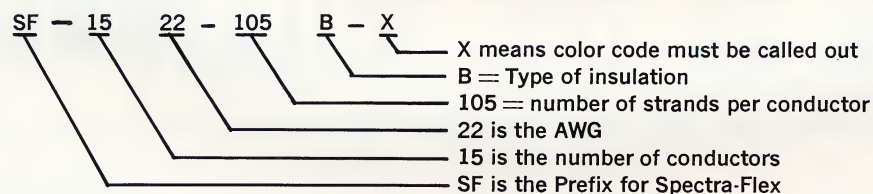
SPECTRA-FLEX® is available in a number of wire sizes and strandings and types and these are shown in the table below including the O.D. and the weight of single conductor wire. Because we have the largest stock of this type of Ultra-Flexible wire in the country we also sell this item in single conductor lots as well as in cable. Except for 26 AWG all the wire is WHITE unless we dye it to any of the standard colors using our own Spectra-Ink. We cannot stripe this wire but we can hot stamp it. We can also shield with either the standard braided shield or the more flexible spiral shield and jacket again with 105°C PVC. Although it is desirable to have all the same AWG in a ribbon cable, we can combine a number of sizes in the same cable.

Because of our large stock, prices are low and delivery is fast.

Number of Condrs.	AWG	Stranding	Type	Insulation	Color	O.D.	Wt/M ft.
1 through 50	18	105/38 TC	C	.015" PVC	White*	.080"	8.0#
1 through 55	20	105/40 TC	C	.015" PVC	White*	.070"	5.6#
1 through 60	22	105/42 TC	B	.010" PVC	White*	.052"	3.1#
1 through 75	24	105/44 BC	B	.010" PVC	White*	.045"	2.2#
1 through 80	26	64/44 BC	C	.015" PVC	10 Std.	.048"	2.2#
1 through 100	30	26/44 BC	B	.010" PVC	White*	.032"	1.3#

*We only stock White but can dye the wire to the 10 Std. colors — @ \$3.00/color.

TYPICAL PART NUMBER



COLOR: White is normal. If 10 Std. colors are desired, we suggest the following sequence be used:
BRN RED ORG YEL GRN BLU VIO GRY WHT BLK and repeat.

PACKAGING: 100 and 250 ft. rolls are standard. Narrow cables may be wound on spools.

MINIMUM ORDER: 1000 conductor feet. (Such as 100 ft. cable of 10 conductors.)

DELIVERY: Allow 2 weeks if possible.

TERMS: Net 30 days, FOB Garden Grove, Calif.



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REPRESENTED BY:

Lloyd E. West Co.
1425 North Lake Ave.
Pasadena, Calif. 91104
Phone 213-681-5281



SPECTRA-STRIP WIRE & CABLE CORP.

[illegible]

SPECTRA-STRIP

WIRE & CABLE CORP.

excellence in engineered wiring

SPECTRA-STRIP

WIRE & CABLE CORP.



excellence in engineered wiring

SPECTRA-STRIP®

Pat. No. 3,005,739

Flat multi-conductor cables: flexible, reliable, and neat. Multi-color for fast identification and handling. The flat bonded process provides low weight, less space, less labor and low capacitance . . . and all this at lower cost!

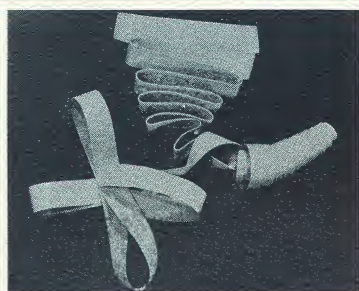
INCREASE:

FLEXIBILITY, RELIABILITY, NEATNESS, EASE OF IDENTIFICATION, AND EASE OF HANDLING.

TYPES OF WIRE THAT CAN BE PUT INTO SPECTRA-STRIP FLAT CABLES:

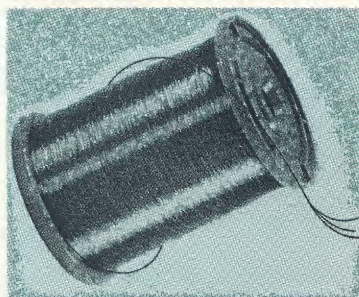
MIL-W-16878D	Type B	600 Volt	105° C.	.010" Vinyl
MIL-W-16878D	Type C	1000 Volt	105° C.	.015" Vinyl
MIL-W-16878D	Type D	3000 Volt	105° C.	.030" Vinyl
MIL-W-76D	Type MW	1000 Volt	80° C.	.015" Vinyl

U.L. APPROVED WITH $\frac{1}{64}$ " AND $\frac{1}{32}$ " PVC INSULATION. ANY SHIELDED WIRE WITH PVC JACKET. ANY COAX WIRE WITH PVC JACKET. ANY TEFLON WIRE WITH PVC JACKET. ANY TWISTED PAIR WITH PVC JACKET. All sizes from AWG 10 to 30. No limit on number of conductors or width of cable. Standard color code is shown on our price list. (Different O.D. Wires possible, but a transition charge must be made.)



ULTRA-FLEX

Extensible-Retractable Flat Bonded Harnesses. Designed to provide space saving problems in drawer pull-out hook-ups and may be shaped to fit every packaging requirement. It has an extra-long flex-life. Available up to 105 strand conductors.



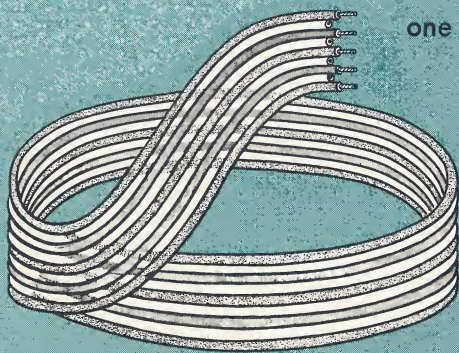
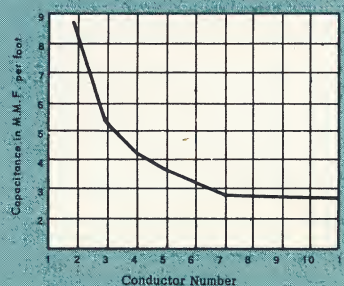
MAGNA-STRIP®

A Flat Ribbon Type Cable made up of any number of conductors of Magnet Wire. Made with 24 to 44 AWG Formvar insulated wire, Magna-Strip is also available in Solderable type wire, production for Memory Circuits, Toroid Coils, subminiature harnesses and cables are a few of its uses.

VERILOCAP®

A low capacitance flat bonded multi-conductor cable with one or more VINYL TUBE SPACERS between each wire to provide low inter-conductor capacitance, controlled spacing and coaxial advantages.

The curve shows the capacitance between #1 Wire and each of the other Wires in a VERILOCAP cable of 22 AWG 19 Strand Type C Wire with a #20 Clear Vinyl Tube Spacer between each wire.



VYNA-KOTE® VYNA-KOTE® LIQUID VINYL is a clear and colorless reinforcing vinyl plastic that bonds vinyl to vinyl. VYNA-KOTE liquid bonds instantly to vinyl surfaces. VYNA-KOTE applies with brush-consistency ease. It may be applied by brush, dipping or squeeze-bottle method. VYNA-KOTE® THINNER is all that is needed if thinning is desired. VYNA-KOTE THINNER is a specially formulated material that may be used for light bonding applications.

APPLICATIONS: VYNA-KOTE bonds crossovers and folds, either single or flat-bonded cable. Vyna-Kote has excellent electrical, humidity and fungus proofing properties. **ENDS SLIPPING AND CREEPING OF VINYL TAPE.** It will withstand vibration, acceleration and shock. Protects coding and numbering on sleeves, and fixes sleeves to vinyl wire for maximum visibility. Prevents leads from splitting off at breakout points.

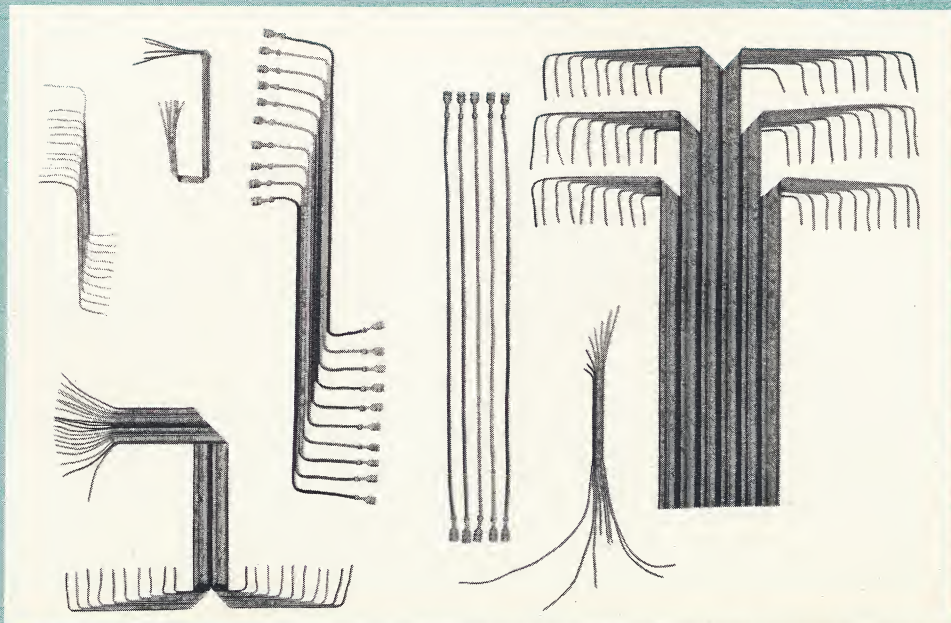
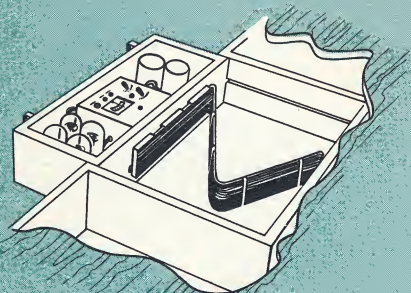
ADDITIONAL VYNA-KOTE FEATURES: For adhesion to other than vinyl surfaces such as metal, plastic or glass, use VYNA-KOTE® PRECOAT as a primer. PRECOAT may be applied by brush, dipping or squeeze-bottle. PRECOAT will air dry in 30 minutes at room temperature.



SPECTRA-INK® PAT. NO. 3,081,140 An instant drying ink to COLOR-CODE vinyl plastic insulated wire. No special work area, drying tower, skilled labor, storage problem, over-runs — scrap — or large investment is needed. Each gallon averages 100,000 ft. of wire. A spectrum of colors are provided from stock white wires. The Spectra-Coder, Model 701B, comes with a special designed applicator for ease of operation. An array of brilliant and long-lasting SPECTRA-INKS are available with no mess or fuss, set-up in 10 minutes, change colors in 30 seconds.

FLAT BONDED HARNESSSES COMPLETE REPRODUCIBILITY is what you will have when you use Flat Bonded wire in your harnesses. The same inter-conductor capacitance in every harness. Solve your problem in the first design and you have solved it through complete production. NO STRINGS attached to our Flat Bonded Harnesses. Increase reliability of your apparatus by eliminating string cut-through, and moisture absorption. There is no limit to the number of wires that can be put into a harness. However for economical reasons harnesses with many breakouts at random places are not practical. Send us your harness or drawing and we will give you our advice at no obligation.

We make Harnesses using any type of wire listed on the inside front cover of this catalog. Various types such as shielded and coax may be in the same harness. Ask for samples and further information. COILED CABLES • PLEATED CABLES • HARNESSSES TO 1000 CONDUCTORS • RELIABILITY • FLEXIBILITY • COLOR CODED • SOLDERING AND POTTING OF ELECTRICAL CONNECTORS.



FLAT BONDED CABLE

Spectra-Strip Wire & Cable Corporation's know-how has been accepted since 1955. The inventor of "Flat Bonded Cabling." High performance, reliability and design has made Spectra-Strip's products acceptable by every major electronics manufacturer the world over.

Custom designed, developed and delivered to the customer, Spectra-Strip cables are proven satisfactory.

At Spectra-Strip Research and Development is carried-out continually. Ever seeking the new to provide its customers.

With all of the advantages of Spectra-Strip Flat Cables you will surely join with the over 900 firms that are already our Customers. Perhaps you are already one of them, then you will be happy to know we are the inventors of Flat Cables made in this process and that Patents have been granted.



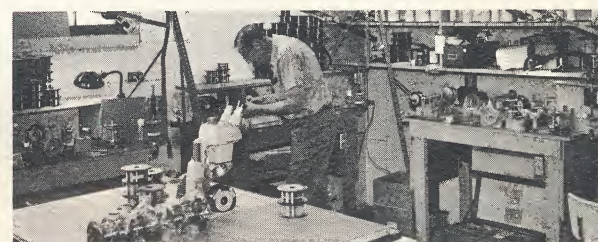
Spectra-Strip's facility occupies 11,000 sq. ft. in Garden Grove, California — in the heart of Orange County's Electronic Industrial area.



Spectra-Strip's engineers are capable, versatile and experienced in producing custom flat bonded cables and harnesses for both the electronic and aerospace industry.



Operating under close supervision, Spectra-Strip's production facilities have established a reputation for reliability, quality and on-schedule deliveries.



Strict quality control and reliability disciplines have resulted in approval of Spectra-Strip as a qualified supplier by major aerospace contractors.

SEE OUR PRICE LIST FOR DELIVERY, PACKAGING AND TERMS

For detailed specifications and literature on Spectra-Strip Wire & Cable Corp. write:



P.O. BOX 415,
GARDEN GROVE, CALIFORNIA
TEL: (714) 537-4530 • TWX: (714) 530-0313

SPECTRA-STRIP WIRE & CABLE CORP.

P. O. Box 415
Garden Grove, Calif. 92642

T. Nelson, Sys. Engr.
INTERLOCKING SYSTEMS COMPANY
Box 1546
Poughkeepsie, New York 12603

Thank you for your interest in...

Flexible Cable

Electronic Products

The attached literature will give you the information you requested. Should you have further questions about your specific requirements, they can be answered by:

┌
L-C-A Sales, Incl
76 Main St.
Tuckahoe, New York 10707
└ Woodbine 1-4700

EXCELLENCE IN ENGINEERED WIRING